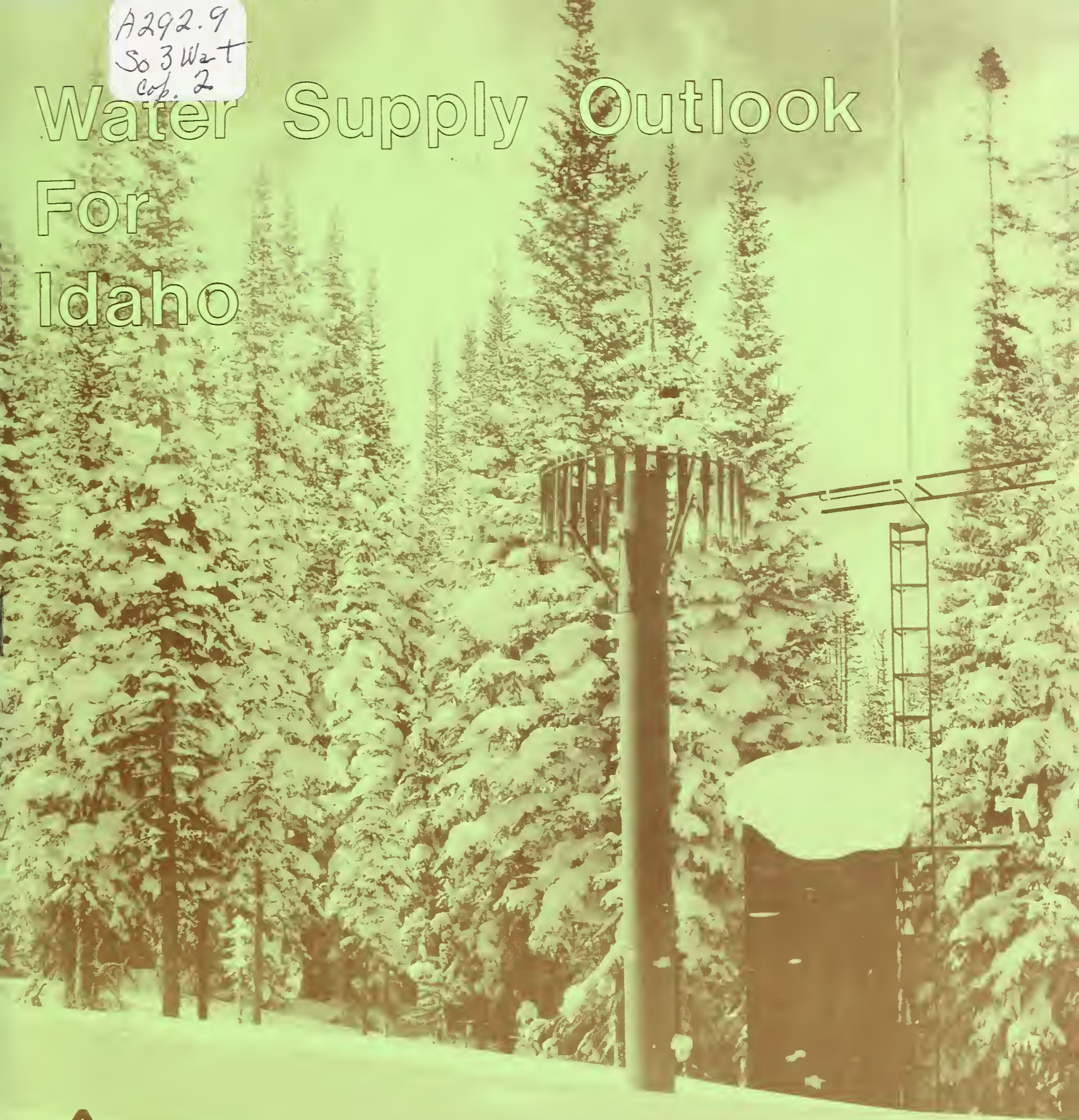


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Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAY 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C.

|||||
Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

|||||
Report prepared by

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BOISE, IDAHO 83702

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1979

The outlook for water supplies as of May 1 changed very little from the predictions made on April 1, 1979. Streamflow forecasts for the May through September season indicate below normal flows on all drainages except the Owyhee in Southwestern Idaho and the Cub River in the Southeastern corner of the State. Forecasts for stations in Idaho vary from a low of 44 percent of average for Inflow to Magic Reservoir on the Big Wood River to 104 percent of normal for the Cub River near Preston.

Precipitation and temperatures both averaged slightly below normal for Idaho during April. Precipitation ranged from a low of 38 percent of average in the Twin Falls area to a high of 159 percent at Salmon. Temperatures around Idaho averaged 1 to 2 degrees below normal.

Carryover storage is fair with sixteen irrigation reservoirs in the Snake River Basin showing a combined storage volume of 108 percent of normal. Major reservoirs are expected to fill.

Irrigation supplies may be short on small streams with no storage facilities but should be adequate on other systems. A wet spring with associated reduction in irrigation demands could alleviate the expected shortages, however, a dry spring would complicate the situation and result in severe shortages. Good water management practices are of the essence this year to stretch supplies available.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonla	(at)	6350	78	May-Sep	7613	8116
		5435	78	May-Jul	6383	6966
		4200	78	May-Jun	4794	5402

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	11100	91	May-Sep	--	12207
		9960	91	May-Jul	--	10945
		8240	91	May-Jun	--	9059

Priest River

Priest River <u>1</u> /*	(nr)	462	64	May-Sep	--	723
		428	64	May-Jul	--	669

SPOKANE RIVER

Post Falls <u>2</u> /	(at)	1550	76	May-Sep	--	2052
-----------------------	------	------	----	---------	----	------

St. Joe River

Calder	(at)	765	73	May-Sep	--	1053
		730	74	May-Jul	--	984

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3</u> /	(at)	800	86	Apr-Sep	--	903
Palisades Inflow <u>3</u> /		3450	89	Apr-Sep	--	3863
Heise <u>4</u> /	(nr)	3325	87	May-Sep	--	3824
Blackfoot <u>5</u> /	(nr)	3690	89	May-Jul	--	4143
Weiser*	(at)	4170	77	May-Sep	--	5408

Henrys Fork

Ashton <u>6</u> /	(nr)	600	95	May-Sep	--	634
Rexburg <u>7</u> /	(nr)	1345	97	May-Sep	--	1387

Portneuf River

Topaz	(at)	65	92	May-Sep	--	71
-------	------	----	----	---------	----	----

Oakley Reservoir Inflow

		16	67	May-Sep	--	24
--	--	----	----	---------	----	----

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades,Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storagein Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake

and diversions between Ashton and Rexburg.

*National Weather Service forecast.

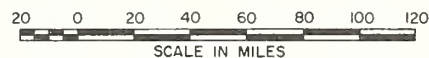
+1963-77 period.

PROSPECTIVE STREAMFLOW

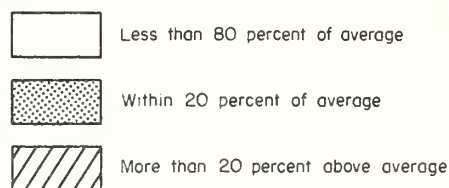
Based on Snow Surveys made on approximately

MAY 1, 1979

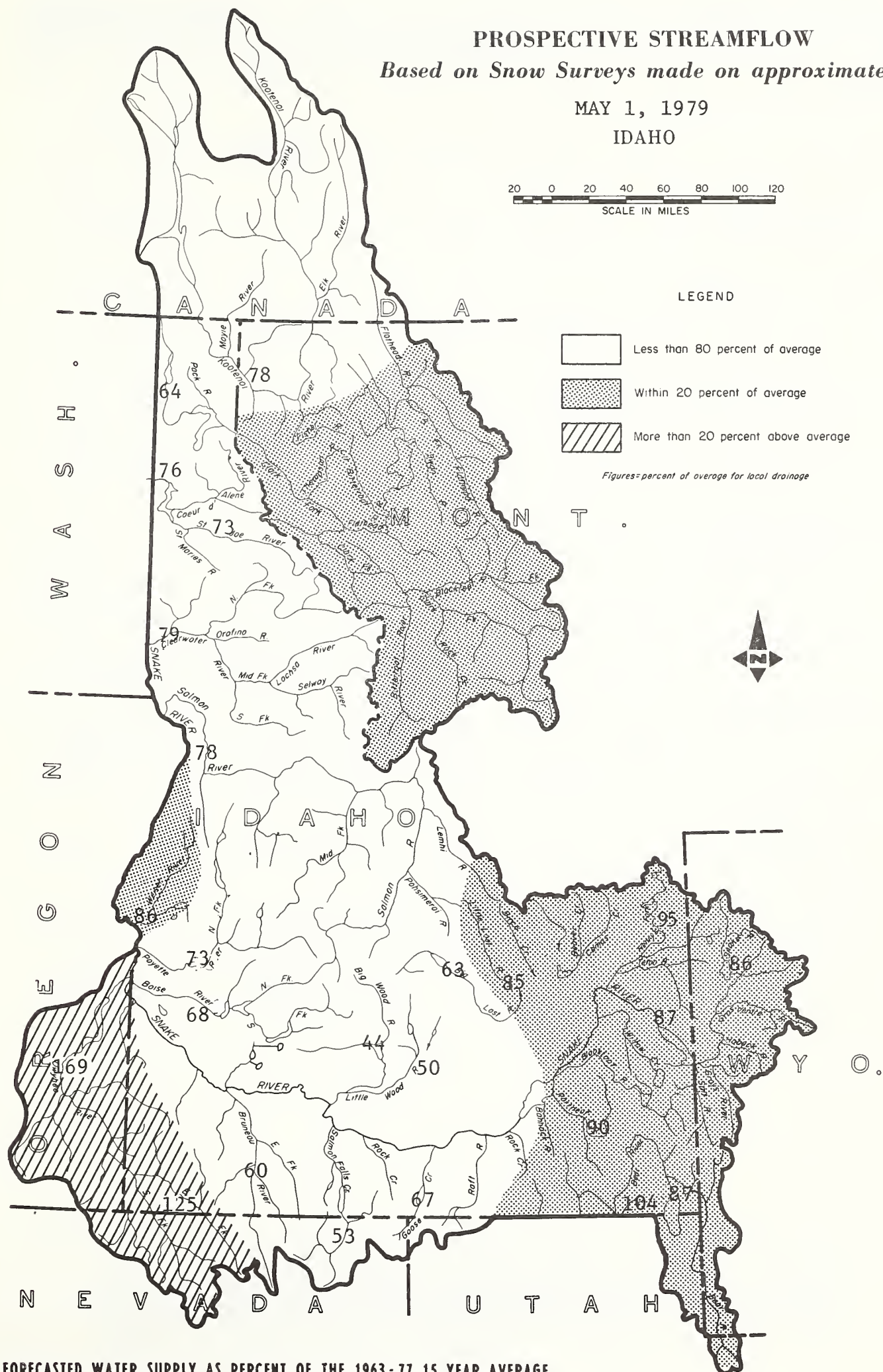
IDAHO



LEGEND



Figures=percent of average for local drainage



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR			PAST RECORD		
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET		
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]	
BASIN, STREAM and/or FORECAST POINT							
<u>Salmon Falls Creek</u>							
San Jacinto	(nr)	33	52	May-Sep	--	63	
		31	54	May-Jul	--	58	
<u>Bruneau River</u>							
Hot Springs	(nr)	110	60	May-Sep	--	183	
<u>Little Lost River</u>							
Howe	(nr)	33	85	May-Sep	--	39	
Wet Creek	(bl)	31	84	May-Sep	--	37	
<u>Big Lost River</u>							
Howell Ranch	(at)	140	66	May-Sep	--	214	
		95	66	May-Jun	--	144	
Mackay <u>1/</u>	(nr)	120	63	May-Sep	--	191	
<u>Big Wood River</u>							
Magic Reservoir		100	44	May-Sep	--	229	
Inflow <u>2/</u>		95	45	May-Jul	--	213	
<u>Little Wood River</u>							
Carey	(nr)	40	50	May-Sep	--	80	
<u>Boise River</u>							
Twin Springs	(nr)	415	68	May-Sep	--	612	
		380	68	May-Jul	--	559	
Boise <u>3/</u>	(nr)	900	68	May-Sep	--	1326	
<u>South Fork</u>							
Anderson Dam <u>4/</u>	(at)	345	68	May-Sep	--	511	
<u>Owyhee River</u>							
Gold Cr., Nev. <u>5/</u>	(nr)	15	125	May-Jul	--	12	
Owyhee, Nev. <u>5/</u>	(nr)	60	118	May-Jul	--	51	
Lake Owyhee		304	169	May-Sep	--	180	
net inflow <u>6/</u>		277	176	May-Jul	--	157	

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

*National Weather Service forecast.

+1963-77 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ¹		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

Payette River

Horseshoe Bend 1/ (nr) 1150 73 May-Sep -- 1567

North Fork

Cascade 3/ (at) 350 73 May-Sep -- 480

Banks 3/ (nr) 435 73 May-Sep -- 599

Weiser River

Weiser (nr) 260 86 May-Sep -- 304

Salmon River

Whitebird* (at) 5130 78 May-Sep -- 6581

Clearwater River

Spalding* (at) 5610 79 May-Sep -- 7081

GREAT BASINBEAR RIVER

Harer (at) 235 87 May-Sep -- 271

Montpelier Creek

Montpelier (nr) 10.5 88 May-Sep -- 12

Cub River

Preston (nr) 51 104 May-Sep -- 49

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4. Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. +1963-77 period.
*National Weather Service forecast.

RESERVOIR STORAGE (1,000 Ac. Ft.)

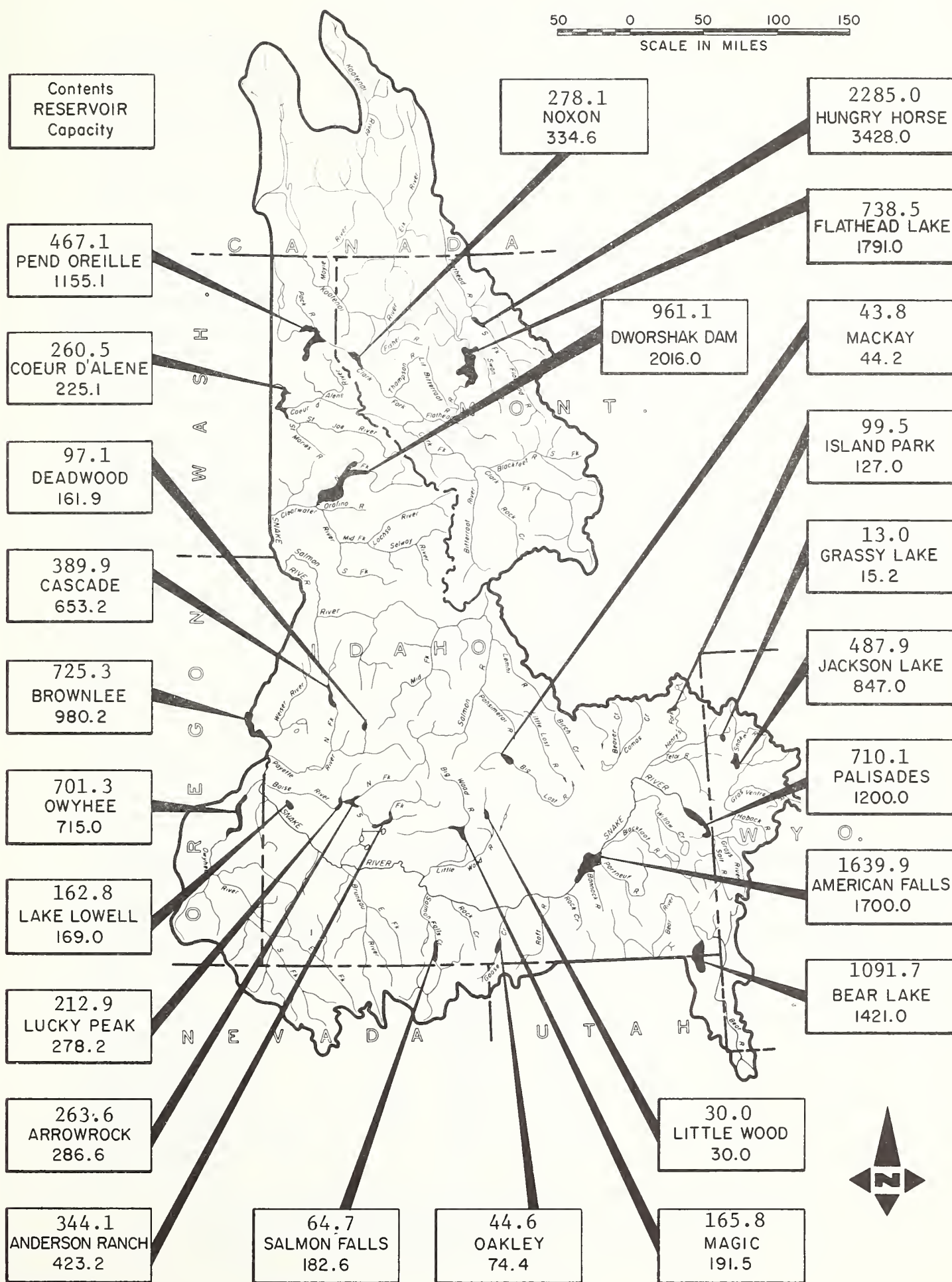
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2285.0	1947.0	2006.0*
Flathead	1791.0	738.5	835.3	977.9*
Pend Oreille	1155.1	467.1	442.2	483.0
Noxon	334.6	278.1	234.3	138.4*
<u>Spokane</u>				
Coeur d'Alene	225.1	260.5	202.4	238.4
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	487.9	330.2	572.3
Palisades	1200.0	710.1	315.6	666.3
American Falls	1700.0	1639.9	1584.1	1488.4
Island Park	127.0	99.5	108.2	126.3
Grassy Lake	15.2	13.0	9.9	11.1
Brownlee	980.2	725.3	644.2	406.4
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	46.6	44.4	37.8
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	64.7	69.5	81.0
<u>Big Lost</u>				
Mackay	44.2	43.8	34.1	34.0
<u>Big Wood</u>				
Magic	191.5	165.8	179.2	172.7
<u>Listtle Wood</u>				
Little Wood	30.0	30.0	28.1	24.5
<u>Fish Creek</u>				
Carey Valley	14.0	9.5	12.4	--
<u>Boise</u>				
Anderson Ranch	423.2	344.1	232.7	289.3
Arrowrock	286.6	263.6	180.3	213.2
Lucky Peak	278.2	212.9	138.7	134.1
Lake Lowell (Deer Flat)	169.0	162.8	173.3	151.2
<u>Owyhee</u>				
Owyhee	715.0	701.3	718.6	591.2
<u>Payette</u>				
Cascade	653.2	389.9	422.8	330.9
Deadwood	161.9	97.1	80.5	98.2
<u>Weiser</u>				
Mann Creek	11.1	11.3	11.4	--
<u>Clearwater</u>				
Dworshak	2016.0	961.1	998.3	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1091.7	847.8	1095.0

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1979

50 0 50 100 150
SCALE IN MILES



VALLEY PRECIPITATION 1/
 Division Averages and Departures
 In Inches

DRAINAGE DIVISIONS	Winter April 1979		Fall - Winter Nov. 78 - April 79	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	1.66	+ .04	11.38	- 3.63
Flathead	2.37	+ .73	11.97	- .40
Clark Fork	1.27	- .06	8.34	- .99
Pend Oreille-Spokane	1.99	+ .17	15.18	- 4.19
Upper Snake	.87	- .92	11.15	- .75
Snake River Plain	.50	- .49	4.87	- 1.20
Salmon-Payette-Boise	1.54	+ .11	10.23	- 2.99
Clearwater	3.18	+ .06	17.77	- 3.23
Owyhee-Malheur	.82	+ .07	6.58	+ .16

1/Preliminary analysis and data by the National Weather Service
 and Meterological Service of Canada.

2/Departure from 15-year (1963-77) drainage division.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

#Bear Mountain	5400	4/24	112	45.9	49.3	67.7*
Halverson Creek	4850	4/24	85	36.5	40.2	43.5*
Smith Creek	4800	5/1	66	31.4	37.2	47.4

PEND OREILLE - PRIEST RIVER

Bear Mountain	5400	4/24	112	45.9	49.3	67.7*
Benton Meadow	2370	4/26	0	0.0	0.0	0.0*
Benton Spring	4900	4/26	39	16.7	10.7	16.7
Schweitzer Bowl	4500	4/27	46	21.3	17.8	26.8*
Schweitzer Ridge	6200	4/27	90	37.1	51.2	47.5*

SPOKANE RIVER

Above Burke	4100	4/30	39	18.5	13.4	19.7*
Copper Ridge	4800	4/27	50	23.5	9.2	25.7
#Forty-nine Meadows	4840	4/27	57	22.6	12.8	26.9
Fourth of July Summit	3200	4/27	0	0.0	0.0	0.8
Granite Peak	6000	4/27	105	38.1	33.0	47.6*
Lookout	5120	4/30	59	28.2	29.6	35.4
#Lost Lake	6080	4/27	127	47.4	44.8	62.5
Lower Sands Creek	3400	4/27	47	18.3	9.7	18.3
Sherwin	3200	4/30	16	7.0	0.0	7.2*

LOWER SNAKE RIVER BASINCLEARWATER RIVER

Breezy Saddle	5000	4/27	59	25.1	15.0	--
Buck Meadows	5650	4/27	63	24.0	18.6	29.9*
Cayuse Airstrip	3500	4/27	0	0.0	0.0	1.0*
Coolwater Mountain	6200	4/27	92	34.7	30.8	35.5*
Crater Meadows	6100	4/27	105	40.6	39.0	47.8
Crooked Fork	3600	4/30	0	0.0	0.0	3.5*
Fish Lake Airstrip	5650	4/27	88	37.4	29.4	41.4*
Forty-nine Meadows	4840	4/27	57	22.6	12.8	26.9
Goat Lake	6500	4/27	118	45.0	42.0	51.9*
#Granite Peak	6000	4/27	105	38.1	33.0	47.6*
Hemlock Butte	5500	4/27	114	44.9	35.7	52.4
#Hoodoo Basin	Mont. 6000	4/30	107	49.6	52.4	55.6*
#Hoodoo Creek	Mont. 5900	4/30	108	49.3	45.4	52.0
Kit Carson Pasture	4950	4/27	6	2.6	--	--
Lolo Pass	5240	4/30	67	30.8	25.4	31.4

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
Lost Lake	6080	4/27	127	47.4	44.8	62.5
Mountain Meadows	6300	4/27	56	19.9	16.4	26.3*
#Nez Perce Pass	Mont. 6575	4/27	42	18.5	15.0	17.4
Pierce Ranger Station	3170	4/30	0	0.0	0.0	1.9
Savage Pass	6170	4/30	69	27.8	26.8	29.3*
Shanghai Summit	4600	4/27	53	23.0	9.5	23.1

SALMON RIVER

Banner Summit	7040	4/30	54	21.2	--	--
Big Creek Summit	6600	4/28	73	30.9	42.8	37.8
#Boulder Creek	5500	4/30	27	11.6	12.2	16.8
Brundage Mountain	7560	4/27	97	40.0	55.0	52.4*
#Deadwood Summit	6750	4/30	70	31.0	48.9	48.2*
#Galena Summit	8780	4/27	51	18.0	30.7	26.9
#Gibbons Pass	Mont. 7100	4/30	57	24.4	25.4	25.3
#Lemhi Pass	Mont. 7480	4/25	38	11.3	8.8	9.2
#Lemhi Ridge	Mont. 8100	4/25	50	15.1	11.6	10.6*
Mill Creek Summit	8800	5/1	46	16.5	23.5	25.9
Moose Creek	6200	4/30	33	12.1	13.0	16.6*
Morgan Creek	7580	5/1	26	9.2	10.0	13.9
#Rock Flat Summit	5340	4/27	34	13.8	18.7	17.9
#Secesh Summit	6520	4/28	59	27.5	37.4	36.9*
#Squaw Meadow	5900	4/28	57	27.2	35.0	36.1*
Vienna Mine	8950	4/26	76	30.1	45.0	39.9*

LEMHI RIVER

Above Gilmore	8250	5/2	31	9.3	8.1	11.0*
Meadow Lake	9200	5/2	48	16.9	17.7	24.5*

MIDDLE SNAKE RIVER BASIN - NORTHSIDE**BIG LOST RIVER**

Bear Canyon	7920	4/26	37	13.5	17.8	18.9*
Copper Basin	7650	4/26	14	5.2	10.0	8.5*
Fishpole Lake	9350	4/26	49	16.6	29.0	--
Lost-Wood Divide	7900	4/26	42	15.6	24.8	24.8*
Stickney Mill	7450	4/26	16	5.6	3.8	6.5*
White Knob	7700	4/30	0	0.0	10.8	8.8*

LITTLE WOOD RIVER

#Bear Canyon	7920	4/26	37	13.5	17.8	18.9*
Garfield Ranger Station	6560	4/26	0	0.0	0.0	2.6*
Muldoon	6300	4/26	0	0.0	0.0	0.6*
Swede Peak	7640	4/26	30	11.2	19.6	16.7*

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (1) Aerial observation Water content estimated. (SP) Pressure Pillon snow-water equivalent. (R) Radioactive Gage snow-water equivalent

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

BIG WOOD RIVER

#Couch Summit	6850	4/28	18	7.3	16.5	14.9*
Dollarhide Summit	8400	4/26	56	19.7	--	24.3*
Galena	7300	4/27	22	8.8	18.6	15.9
Galena Summit	8780	4/27	51	18.0	30.7	26.9
Graham Ranch	6280	4/27	15	5.6	7.9	9.2*
Hyndman	7440	4/26	21	8.3	--	--
#Lost-Wood Divide	7900	4/26	42	15.6	24.8	24.8*
Mascot Mine	7760	4/26	31	10.6	17.1	15.5*
Mount Baldy	9000	4/30	44	14.7	30.5	23.6*
Soldier Ranger Station	6100	4/28	0	0.0	0.0	1.1*
#Vienna Mine	8950	4/26	76	30.1	45.0	39.9*

BOISE RIVER

Atlanta Summit	7500	4/30	62	25.0	40.3	36.6
Bad Bear	5500	4/30	0	0.0	4.0	6.8
#Bogus Basin	6340	5/2	41	17.5	24.3	24.0*
Bogus Basin Road	5520	5/2	0	0.0	0.0	0.4*
Couch Summit	6850	4/28	18	7.3	16.5	14.9*
#Dollarhide Summit	8400	4/26	56	19.7	--	24.3*
Graham Guard Station	5690	5/1	0	0.0	8.5	--
Jackson Peak	7070	4/30	54	21.8	35.0	26.8*
Moore's Creek Summit	6100	4/30	55	22.5	35.8	32.6
#Soldier Ranger Station	6100	4/28	0	0.0	0.0	1.1*
Trinity Mountain	7780	4/30	67	29.7	50.4	44.1*
#Vienna Mine	8950	4/26	76	30.1	45.0	39.9*

PAYETTE

Banner Summit	7040	4/30	54	21.2	--	--
#Big Creek Summit	6600	4/28	73	30.9	42.8	37.8
Bogus Basin	6340	5/2	41	17.5	24.3	24.0*
#Brundage Mountain	7560	4/27	97	40.0	55.0	52.4*
Cozy Cove	5400	4/30	3	1.2	5.2	10.7*
Crawford Ranger Station	4800	4/28	0	0.0	0.0	0.4
Deadwood Airstrip	5440	4/30	6	2.6	3.8	8.6*
Deadwood Summit	7000	4/30	70	31.0	48.9	48.2*
#Jackson Peak	7070	4/30	54	21.8	35.0	26.8*
Lake Fork	6000	4/28	30	12.0	14.7	14.1*
Rock Flat Summit	5340	4/27	34	13.8	18.7	17.9
Secesh Summit	6520	4/28	59	27.5	37.4	36.9*
Squaw Meadow	5900	4/28	57	27.2	35.0	36.1*

WEISER RIVER

Boulder Creek	5500	4/30	27	11.6	12.2	16.8
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(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year average. (V) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Howell Canyon	7980	4/28	35	15.7	25.8	23.7*
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GOOSE CREEK

Bostetter Ranger Station	7500	4/30	39	16.9	--	12.3*
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SALMON FALLS CREEK

#Bear Creek	Nev.	7800	4/26	58	23.1	27.7	21.2*
Cedar Creek (A)		7000	4/27	9	3.7	--	4.3*
Deadline		6900	4/27	51	24.1	15.4	21.7*
Goat Creek (A)	Nev.	8800	4/27	46	17.5	22.6	20.8
#Hummingbird Springs	Nev.	8940	4/27	60	23.0	--	27.7
Magic Mountain		6700	4/27	45	20.9	15.9	18.8*
#Pole Creek R. S.	Nev.	8330	4/27	54	21.4	21.0	25.8
Wilson Creek (A)		7500	4/27	18	7.4	--	8.4*

BRUNEAU RIVER

Bear Creek	Nev.	7800	4/26	58	23.1	27.7	21.2*
Hummingbird Springs	Nev.	8940	4/27	60	23.0	--	27.7
Pole Creek R. S.	Nev.	8330	4/27	54	21.4	21.0	25.8*
#Seventy-six Creek	Nev.	7100	4/26	26	11.3	9.1	4.7*

OWYHEE RIVER

#Bear Creek	Nev.	7800	4/26	58	23.1	27.7	21.2*
#Seventy-six Creek	Nev.	7100	4/26	26	11.3	9.1	4.7*
Silver City		6400	4/30	26	12.9	8.3	11.3*
South Mountain		6340	4/30	25	11.6	8.8	7.1*

UPPER SNAKE RIVER BASINHENRYS FORK RIVER

Big Springs		6400	4/30	29	12.6	20.6	17.7
Black Canyon		7850	4/30	79	36.8	--	--
Black Moose		8130	4/30	80	37.2	--	44.5*
Grassy Lake	Wyo.	7230	4/30	78	39.6	41.6	36.4
Island Park		6290	4/30	22	9.8	12.5	11.4
Latham Springs		7650	4/30	66	32.2	--	37.9*
Lucky Dog		6900	4/30	42	19.0	--	26.4*
Sawtell Mountain		8720	4/30	78	35.4	46.2	37.1*
Targhee Pass		7000	5/1	32	12.8	17.8	16.2*
Valley View		6740	5/1	29	13.0	11.6	14.5
White Elephant		7700	4/30	50	22.8	33.2	--

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

TETON RIVER

Darby Canyon	Wyo.	8250	4/27	65	26.0	25.6	25.5*
Freds Mountain	Wyo.	8150	4/27	62	24.7	30.1	21.1*
Garns Mountain		8300	4/27	104	46.8	43.7	31.1*
Indian Meadows	Wyo.	8240	4/27	88	35.8	42.7	39.9*
Jackpine Creek	Wyo.	7350	4/27	54	21.8	21.4	24.1*
McRenolds Reservoir		6800	4/27	49	19.9	17.4	19.8*
Miles Creek	Wyo.	7300	4/27	26	10.4	4.6	11.4*
Phillips Bench	Wyo.	8200	4/30	79	33.2	41.4	31.5*
Pine Creek Pass		6750	4/27	35	15.2	9.7	14.8
State Line		6650	4/27	34	15.2	0.0	10.7
Teton Pass W.S.	Wyo.	8400	4/30	71	31.7	--	28.9*

WILLOW CREEK

Aspen Grove		6500	4/27	29	10.5	6.2	--
Birch Creek		6800	4/27	18	6.6	0.0	--
Blue Ridge		6800	4/27	21	9.6	8.5	--
Bone		6200	4/27	0	0.0	0.0	--
Brockman Station		6430	4/27	14	5.8	0.0	--
Hell Creek		7100	4/27	23	9.8	4.7	--
Mud Creek		7150	4/27	19	8.4	11.3	--
Sheep Mountain		6570	4/27	16	7.2	0.0	--
Tex Creek		6650	4/27	21	7.4	0.0	--

BLACKFOOT RIVER

Slug Creek Divide		7230	4/30	22	10.5	13.8	17.0*
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GREAT BASINMONTPELIER CREEK

Giveout		6840	5/1	19	7.4	10.6	6.9*
Little Beaver		6970	5/1	14	5.8	13.4	11.4*
Lower Home Canyon		7640	4/30	21	9.0	13.4	11.1*
Montpelier Creek		6570	5/1	0	0.0	0.0	1.2*
Upper Home Canyon		8560	4/30	46	20.4	32.2	24.5*
Whiskey Flat		6960	5/1	0	0.0	3.4	4.5*

CUB RIVER

Cub River Ranger Station		5400	4/25	0	0.0	0.0	0.0
#Franklin Basin		8000	4/25	56	25.0	33.5	--
Willow Flat		6100	4/25	22	10.2	4.2	5.5*
Emigrant Summit		7380	4/30	43	19.1	30.4	24.9*

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

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generation, navigation,
mining and industry

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with the Snow Survey"*

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